

DEPARTMENT OF WATER RESOURCES

Real time/Forecasting Activities

- Data Collection and Preparation (Coordination with Interagency Ecological Program database manager to streamline data for real time/forecasting modeling)
 - Providing preliminary initial and boundary condition values on weekly (or as needed) basis for real time availability.
 - Developing procedures to address questionable or erroneous data.
 - Developing web based accessibility for ease of use.
 - Developing automated processes for input file preparation.
 - Identification of necessary data requirements for different models.

- Data Utility Toolbox Development
 - Pre-processing data tool (Vplotter) to assist in QA/QC of initial and boundary conditions.
 - Developing techniques to fill in missing, questionable, or erroneous values of initial and boundary condition data sets and flag data as appropriate.
 - Developing output tool(s) and standard graph formats for generating study reports.

- Model Development/Support/Implementation (DSM2 Hydro, Qual, and PTM)
 - Continuing model support for planning studies and implementing enhancements and modifications as needed.
 - Continuing BDMF participation (DCC gate scenario analysis).
 - Continuing IEP DSM2PWT calibration efforts (including geometry data enhancement).
 - Implementing parallel real time forecasting with DSM2 hydro and water quality analysis in Operations and Maintenance.
 - Implementing internal DWR real time/forecasting workgroup

Recommendations

- Implement an interagency workgroup to address technical development of tools listed above and process for development of modeling alternatives.
- Provide resources to address technical issues associated with implementation of real time/forecasting.
- Establish procedures for agency data providers to provide QA/QC data in real time.
- Establish redundancy for monitoring equipment at key locations.
- Conduct periodic workshops through the Bay-Delta Modeling Forum to address forecasting modeling issues.